

PATENT

Attorney Docket No.: WEAT/0344

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Claims:

1. A method for preferentially directing a path of a casing to form a wellbore, comprising:

providing a second casing concentrically disposed within a first casing, the second casing having a motor system releasably attached therein;

jetting the first casing having an earth removal member operatively connected thereto into a formation to a first depth while selectively altering the trajectory of the wellbore;

releasing a releasable attachment between the first and second casing; and

selectively altering a trajectory of the second casing while rotating the earth removal member operatively connected to a lower end of the motor system as the second casing continues into the formation.

2. The method of claim 1, wherein the biasing member includes a preferential jet for directing fluid flow asymmetrically through the first casing while jetting.

3. The method of claim 1, wherein the biasing member includes a stabilizing member disposed proximate to a midpoint of the first casing.

4. The method of claim 1, further comprising diverting fluid flow to a passageway through the motor system.

5. The method of claim 4, further comprising flowing a physically alterable bonding material through the passageway to the earth removal member.

6. An apparatus for deflecting a wellbore, comprising:

a casing string with means for deflecting the casing string preferentially in a direction; and

a first cutting apparatus disposed at a lower portion of the casing string.

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7. The apparatus of claim 6, wherein the first cutting apparatus includes at least one drillable nozzle extending therethrough, the at least one nozzle having an extended straight bore extending longitudinally therethrough.

8. The apparatus of claim 6, wherein the first cutting apparatus includes at least one nozzle extending therethrough, the at least one nozzle being drillable and having a profiled sleeve coating of a hard material.

9. An assembly for drilling with casing, comprising:

a casing latch for securing the assembly to a portion of casing;

a bit attached to a bottom portion of the assembly;

a biasing member for providing the bit with a desired deviation from a center line of the wellbore; and

at least one adjustable stabilizer.

10. The assembly of claim 9, wherein the stabilizer has one or more support members adapted to be placed in a first position for running through the portion of casing and a second position for engaging an inner wall of the wellbore.

11. The assembly of claim 10, wherein the stabilizer is adjustable to at least a third position, wherein an outer diameter of the stabilizer in the third position is less than the outer diameter of the stabilizer in the second position.

12. The assembly of claim 9, further comprising a measurement tool.

13. An assembly for drilling with casing, comprising:

a casing latch for securing the assembly to a portion of casing;

a cutting structure attached to a bottom portion of the assembly; and

a biasing member for providing the cutting structure with a desired deviation from a centerline of the wellbore, wherein directional force for providing the cutting structure with the desired deviation is provided substantially by the casing.

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14. A method of forming a wellbore using a casing equipped with a cutting apparatus, comprising:

positioning an orienting member in the casing, the orienting member having a predetermined orientation relative to the cutting apparatus; and

positioning a survey tool with respect to the orienting member, such that an orientation of the survey tool in the casing is known.

15. The method of claim 14, wherein the orienting member includes at least one flow aperture therethrough, and the survey tool includes at least one flow aperture therethrough.

16. The method of claim 15, wherein the orienting member provides an additional downhole functionality.

17. The method of claim 16, wherein the additional downhole functionality includes receiving a cementing tool therein.

18. The method of claim 16, wherein the additional downhole functionality includes providing a stage tool integral therewith.

19. An apparatus for drilling with casing, comprising:

a casing having a drilling member disposed at a lower portion thereof;

a pivoting member coupling the drilling member to the casing, wherein the drilling member may be pivoted away from a centerline of the casing for directional drilling.

20. The apparatus of claim 19, wherein the apparatus further comprises a drilling motor, wherein the pivoting member is coupled to the drilling motor.

21. A method of collecting information while drilling with casing, comprising:

providing a measurement tool in a casing, the measurement tool having a first inlet and a second inlet;

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flowing fluid through a first channel to actuate the measurement tool;
collecting information on a condition in the wellbore;
increasing fluid flow in the casing; and
flowing fluid through the second channel to continue drilling.